



Thursday, December 12, 2019

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: NPDES DECEMBER 2019
SDG ID: GCE80284
Sample ID#s: CE80284

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

December 12, 2019

SDG I.D.: GCE80284

Project ID: NPDES DECEMBER 2019

Client Id	Lab Id	Matrix
EFFLUENT	CE80284	WASTE WATER



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Analysis Report

December 12, 2019

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G10513

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/04/19
12/04/19

Time

7:00
15:35

Laboratory Data

SDG ID: GCE80284
Phoenix ID: CE80284

Project ID: NPDES DECEMBER 2019
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.028	0.003	mg/L	1	12/07/19	CPP	E200.7
B.O.D./5 day	13	4.0	mg/L	2	12/05/19 12:00	RVM/RM	SM 5210B-11
B.O.D./5 day End Incubation					12/10/19 14:59	RVM/RM	SM 5210B-11
C.O.D.	250	10	mg/L	1	12/06/19	NLM	SM 5220C-11
Ammonia as Nitrogen	0.77	0.25	mg/L	5	12/07/19	KDB	E350.1
Nitrite-N	4.24	0.100	mg/L	10	12/04/19 19:52	TB	E353.2
Nitrate-N	1.71	0.20	mg/L	10	12/04/19 19:52	TB	E353.2
Nitrogen Tot Kjeldahl	10.8	0.50	mg/L	5	12/07/19	KDB	E351.1
Total Nitrogen	16.8	0.10	mg/L	1	12/07/19	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	2.04	0.10	mg/L	10	12/11/19	JR	SM4500PE-11
Total Suspended Solids	53	17	mg/L	3.3	12/05/19	NLM	SM 2540D-11
Total Metals Digestion	Completed				12/06/19	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

December 12, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

December 12, 2019

QA/QC Data

SDG I.D.: GCE80284

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 509171 (mg/L), QC Sample No: CE80481 (CE80284)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.0025	0.054	0.0546	1.10	104	103	1.0	109			75 - 125	20



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QA/QC Report

December 12, 2019

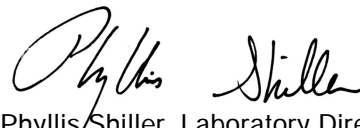
QA/QC Data

SDG I.D.: GCE80284

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 509204 (mg/L), QC Sample No: CE80145 (CE80284)													
C.O.D.	BRL	10	<10	<10	NC	103			116			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 508938 (mg/L), QC Sample No: CE80209 (CE80284)													
Total Suspended Solids	BRL	2.5	9.3	11	NC	98.0						85 - 115	
QA/QC Batch 509705 (mg/L), QC Sample No: CE80257 (CE80284)													
Phosphorus, as P	BRL	0.01	2.18	2.24	2.70	101			106			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 508939 (mg/L), QC Sample No: CE80472 (CE80284)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	84.8			104			70 - 130	20
B.O.D./5 day GGA BOD						94.7						84 - 115	20
QA/QC Batch 508872 (mg/L), QC Sample No: CE80451 (CE80284)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	100			101			90 - 110	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	96.0			105			90 - 110	20
QA/QC Batch 509164 (mg/L), QC Sample No: CE80264 (CE80284)													
Ammonia as Nitrogen	BRL	0.05	36.2	35.6	1.70	102			105			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	49.4	49.4	0	102			102			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
December 12, 2019

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Criteria: None

State: MA

Sample Criteria Exceedances Report

GCE80284 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

